

DH-HAC-HDW1239T-Z-A-LED

2MP Full-color HDCVI Eyeball Camera





- * The parameters and datasheets below can only be applied to 1239-S2 series.
- · 24/7 color imaging, Max. 30 fps@1080p
- · Super Adapt, 130 dB true WDR, 3D NR
- · Auto focus, 2.7 mm-13.5 mm motorized lens
- · 40 m illumination distance
- · Built-in mic
- · CVI/CVBS/AHD/TVI switchable
- · IP67, DC 12V













System Overview

Lite Series is suitable for users who requires high quality monitoring products at areasonable price. It is cost effective and offers high performance, which makes it an ideal choice for residential and small-medium business applications. This series offers an option of a wide range of technologies such as Full-color and Starlight, providing various solutions for different scenarios.

Functions

Full-color

Full-color camera adopts large aperture lens and high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera provides 24/7 color monitoring that collects clear and vivid information, significantly increasing probability of gathering valid human, vehicle, and event evidence that can be used for further intelligent analysis.

Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

Wide Dynamic Range

With advanced Wide Dynamic Range (WDR) technology, Dahua HDCVI camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Super Adapt

Embedded with intelligent algorithm, for changing external environment, camera can automatically adjust parameters to present the optimal image, and it solves the trouble of configuration.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

Warm Supplemental lights

With warm supplemental LED lights, the camera is able to provide a coloful and vivid image even in total darkness. By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposureing of the objects in the image center.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the XVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

st Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700 m transmission for 2MP/5MP/8MP HD video via coaxial cable, and up to 300 m via UTP cable.

*Actual results verified by real-scene testing in Dahua's test laboratory.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification					Gain Control	Auto; manual		
Camera						Noise Reduction	3D NR	
Image Sensor		1/2.8" CMOS				Smart Light	Yes	
Max. Resolution		1920 (H) × 1080 (V)				Mirror	Off/On	
Pixel		2MP				Privacy Masking	Off/On (8 area, rectangle)	
Scanning System		Progressive				Certifications		
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s				Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)	
S/N Ratio		>65 dB				UL (UL60950-1+CAN/CSA C22.2 No.60950-1)		
Min. Illumination		0.001 Lux/F1.2, 30IRE, 0 Lux LED on				Port		
Illumination Distance		40 m (131.2	! ft)			Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Illuminator On/Off Control		Auto; manu	al			Audio Input	One channel built-in mic	
Illuminator Number		2				Power		
Pan/Tilt/Rotation Range		Pan: 0°-360 Tilt: 0°-78° Rotation: 0°				Power Supply	DC 12V ±30%	
Laws		Rotation. 0	-300			Power Consumption	Max 6.7W (12V DC, LED on)	
Lens						Environment		
Lens Type Auto Focus		Motorized vari-focal Yes				Operating Temperature	-30°C to +60°C (-22°F to 140°F);< 95% (noncondensation)	
Mount Type		ф16				Storage Temperature	-30°C to +60°C (-22°F to 140°F);< 95% (noncondensation)	
Focal Length		2.7 mm-13.	5 mm			Protection Grade	IP67	
Max. Aperture		F1.2				Structure		
Field of View		Diagonal: 39 Horizontal: 199 Vertical: 199	34°–107°			Casing	Metal throughout the whole casing	
Iris Type		Fixed iris				Camera Dimensions	φ122 mm × 104.8 mm (φ4.8" × 4.13")	
Close Focus Distance		1.5 m (4.9 ft)				Net Weight	0.57 kg (1.26 lb)	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Gross Weight	0.72 kg (1.59 lb)	
	2.7 mm	44.9 m (147.3 ft)	17.9 m (58.7 ft)	8.9 m (29.2 ft)	4.5 m (14.8 ft)	3, 333, 6,10		
	13.5 mm	128.6 m (421.9 ft)	51.4 m (168.6 ft)	25.7 m (84.3 ft)	12.8 m (42 ft)			

Video

Frame Rate	CVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; CVBS: PAL: 960 × 576H; NTSC: 960 × 480H;	
Resolution	1080P (1920 × 1080); 960H (960 × 576/960 × 480);	
BLC	BLC/WDR/HLC	
WDR	130 dB	
White Balance	Auto;Area WB	

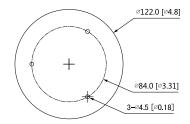
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Ordering Information						
Туре	Part Number	Description				
2MP Camera	DH-HAC-HDW1239TP- Z-A-LED	2MP Full-color HDCVI Eyeball Camera, PAL				
ZIMP Camera	DH-HAC-HDW1239TN- Z-A-LED	2MP Full-color HDCVI Eyeball Camera, NTSC				
	PFA137	Junction box				
	PFA130-E	Water-proof Junction Box				
	PFB205W	Wall Mount Bracket				
	PFA106+PFB220C	Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera				
Accessories	PFA152-E+PFB205W	Pole Mount Bracket + Wall Mount Bracket				
	PFM800-E	Passive HDCVI Balun				
	PFM321D	12V 1A Power Adapter				
	PFM820	UTC Controller				
	PFM904	Integrated Mount Tester				

Junction Mount	Wa ll Mount	Ce ili ng Mount	
Pole Mount(Vertical)			

Dimensions (mm[inch])

104.8 [4.13]



Accessories

Optional:



PFA137 Junction box



PFA130-E Water-proof Junction Box



PFA106+PFB220C Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera



PFA152-E+PFB205W Pole Mount Bracket + Wall Mount Bracket



PFM800-E Passive HDCVI Balun







PFM820 UTC Controller



PFM904 Integrated Mount Tester